

APRIL/MAY 2023

**CEBC64 — PHARMACEUTICAL
BIOCHEMISTRY**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Explain about hepatic first pass effect.
2. Explain about oxidation reactions.
3. What is meant by IC 50 and LD 50?
4. Specify the adverse reaction of drugs.
5. Mention the mode of action of hypoglycemic drugs.
6. What are antibiotics?
7. Differentiate secondary metabolites from primary metabolites.
8. What is the therapeutic role exerted by curcumin?
9. Define Chemotherapy.
10. Specify the therapeutic role of alkaloids in treatment of diseases.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the terms agonist and antagonist.

Or

- (b) Discuss on the theories involved in drug receptor interaction.

12. (a) Discuss about drug tolerance and intolerance.

Or

- (b) Write an account on drug abuse.

13. (a) Illustrate with examples the action of drugs used in the control of lipids.

Or

- (b) Comment on the phytotherapeutic effect in IBS.

14. (a) Discuss on the therapeutic values of medicinal plants in Ayurveda sciences.

Or

- (b) Explain the action of various bioactive principles in Neem.

15. (a) Summarize the mode of action of glycosides.

Or

- (b) Brief about the plants used for treatment of diabetes mellitus.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elaborate on phase I metabolic reactions.

17. Discuss on the significance of liposomes in drug delivery.

18. Describe the mechanism of action of antibiotics.

19. Explain the various components of nila vembu kasayam that control infectious diseases.

20. Elaborate on the action of Cytotoxic drugs.